

H-IPRF-16QAM

IPTV to 16/32 CLEAR CHANNEL RF QAM/8-VSB Modulator



Thor Broadcast model H-IPTV-16QAM will modulate IPTV transport streams to Clear-QAM RF channels for QAM applications.

The H-IPTV-16 QAM modulator is a simple all-in-one utility device to convert up to 1024 IP Transport Streams in UDP / RTP into 16 non-adjacent QAM Channels. This Thor Broadcast high-density IP to QAM modulator is designed to take content delivered via an IP backbone or CDN system and modulate the programming onto digital QAM cable channels for distribution over coax. This product includes a 1RU chassis supporting two individual Ethernet inputs injecting up to 840Mbps on each Ethernet RJ45 connector outputs That all programming onto a single RF F-Type connector for easy output into your RF Coax infrastructure.

This single RU form factor allows you create your own IP to RF headend in a single chassis. All QAM Channels and IP inputs are managed from the easy to use NMS RJ45 port connection on the front of the unit allowing you to quickly and easily access your programming from Thor's easy to read GUI That can be accessed from anywhere on your network. The IPTV programming input is standard headend format, meaning basic UDP / RTP unicast/multicast IGMP v2 / v3 addresses and port format. This impressive density allows a single chassis to convert an IPTV Ethernet backbone feed to be converted to a full lineup of digital cable QAM channels for easy distribution.

Features

- IPTV Modulator includes 2 x Gigabit Ethernet input interfaces
- 16 Clear QAM Channel Outputs - Non-Adjacent 50-960Mhz
- Maximum 1024 Channels TS over UDP, RTP & Unicast / Multicast
- Output Of RF on 16 Multiplexed, Scrambled, or QAM Channels
- Gigabit Ethernet is serviced by SFP interface
- Supports Unicast and Multicast, supports IGMP v2 / v3
- Max 840Mbps for each GE Input
- Supports Up to 180 PIDs per channel with PID remapping (manual or auto)
- Web NMS Network Management Software for easy online access and management

Specifications

Input	input	512 x 2 IP inputs, 2x 100 / 1000M Ethernet port (SFP)	
	Transport Protocol	TS over UDP / RTP unicast and multicast, IGMP V2 / V3	
	Transmission Rate	Max 840Mbps for each input GE	
Mux	Channel input	1024	
	Output Channel	16	
	max PIDs	180 per channel	
	Functions	PID remapping (auto / manually optional)	
		PCR accurate adjusting	
		PSI / SI table Automatically generating	
Scrambling parameters	Max simulcrypt CA	4	
	Scramble Standard	ETR289, ETSI 101 197, ETSI 103 197	
	Connection	Local / remote connection	
Modulation parameters	QAM Channel	16 non-adjacent carriers	
	Modulation Standard	EN300 429 / ITU-T J.83A / B	
	symbol Rate	5.0 ~ 7.0Msps, stepping 1ksps	
	Constellation	16, 32, 64, 128, 256QAM	
	FEC	RS (204, 188)	
RF Output	Interface	1 F-type output for 16 carriers, 75Ω impedance	
	RF Range	50 ~ 960MHz, stepping 1kHz	
	Output Level	-20dBm ~ + 10dBm , 27~57dbmV, 0.1dB stepping	
	MAYOR	≥ 40dB	
	ACLR	-60 dBc	
TS output	16 IP output over UDP / RTP / RTSP, unicast / multicast, 2 x 100 / 1000M Ethernet Ports		
System	Network management software (NMS)		
General	Dimensions	420mm x 440mm x 44.5mm (WxLxH)	
	Weight	10lbs	
	Temperature	0 ~ 45C (Operation) -20 ~ 80C (Storage)	
	Power Supply	AC 100V ± 10%, 50 / 60Hz or 220V AC ± 10%, 50 / 60Hz	
	Consumption	15.4W	